

# iNTELLiPUMP



## Intelligent Irrigation Scheduling

iNTELLiPUMP is the control system with a host of exclusive features, plus the added benefit of being able to integrate with a serious monitoring system – all at a very cost-effective price.

Why would you muck around with anything less professional and efficient for your business?



**Any number of pumps, valves and fertigation lines – all from one base.**

### INTELLIGENT SOFTWARE

iNTELLiPUMP irrigation scheduling software allows you to manage:

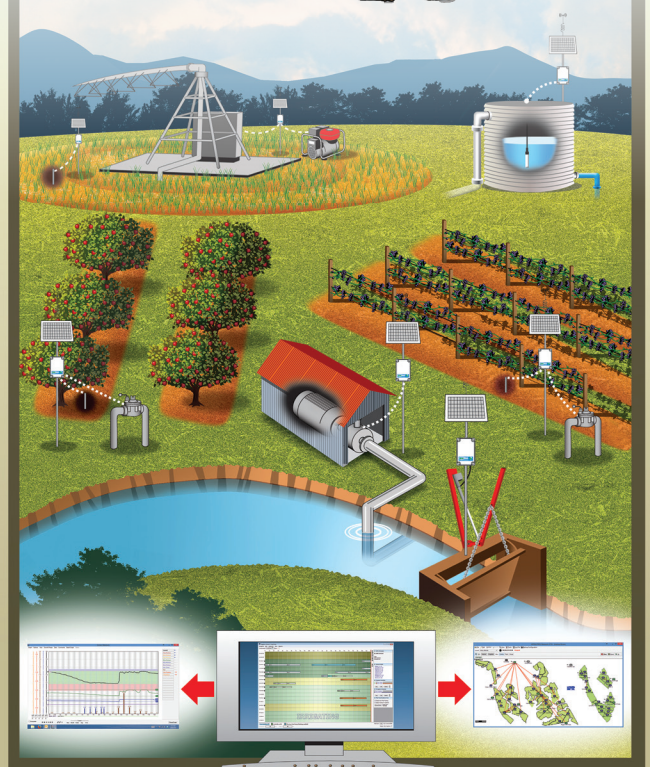
- Multiple irrigation systems from the one base station
- Multiple water sources and multiple mainlines
- Automatic filtration systems
- Fertigation equipment

### INTELLIGENT CUSTOMISATION

iNTELLiPUMP holistic irrigation scheduling software has the flexibility that allows you to:

- Create and save any number of custom irrigation schedules
- Create and save any number of custom fertigation schedules
- Trigger starting and stopping of irrigation schedules based on sensor values or a combination of sensors
- Run multiple schedules concurrently
- Create any number of user alarms
- Schedule remotely using iNTELLiWEB, SMS commands, or remote desktop applications
- Automatically generate valve usage and fertigation reports

**All with the simplicity of the 'Drag and Drop' scheduling calendar – turn the page for more details**



# INTELLiPUMP

## 'Drag and Drop' Irrigation Scheduling

Create complex multi-valve, multi-shift schedules in minutes simply by dragging and dropping on to the calendar.

The screenshot displays the INTELLiPUMP software interface for irrigation scheduling. The main area is a calendar grid showing days from Friday, 03-04-20 to Tuesday, 14-04-20. The grid is color-coded by day and time, with a large 'IRRIGATING' watermark in the center. Various colored bars represent different irrigation and fertigation events. A right-hand panel titled 'Shift Information' provides details for the current shift, including time, duration, and a list of valves and gates. Below this, there are sections for 'Irrigation Schedules', 'Fertigation Schedules', and 'Fertigation Devices'. A bottom status bar shows system pressure (565 kPa), flow rate (6.9 l/s), and rain data. The interface is annotated with numerous callouts explaining its features.

**Annotations:**

- DAYS OF MONTH**: Points to the date column on the left.
- CONTROLLER SELECTION TABS**: Points to the 'Controller 1' tab at the top.
- HOURS OF DAY**: Points to the time slots (1a, 2a, etc.) at the top.
- CURRENT TIME**: Points to the current time indicator (8:20pm).
- HISTORICAL SCHEDULES**: Points to past irrigation events.
- FUTURE SCHEDULES**: Points to upcoming irrigation events.
- CURRENTLY SELECTED SHIFT SUMMARY**: Points to the 'Normal Shift' details panel.
- FILTER FLUSH EVENT**: Points to a blue bar representing a filter flush.
- PUMPS IN USE**: Points to a red bar representing pump activity.
- IRRIGATION SHIFT**: Points to a green bar representing an irrigation shift.
- IRRIGATION SCHEDULE**: Points to a yellow bar representing a specific irrigation schedule.
- FERTIGATION SCHEDULE**: Points to a red bar representing a fertigation schedule.
- TIME-BASED REPEATING SCHEDULES**: Points to a repeating pattern of irrigation events.
- DRAG & DROP INDIVIDUAL VALVES**: Points to the 'Valves & Gates' list.
- SORT VALVES BY MAINLINE**: Points to the sorting options in the valve list.
- CUSTOMISE VALVE/BLOCK NAMES**: Points to the list of valves and gates.
- DRAG & DROP CUSTOM IRRIGATION SCHEDULES**: Points to the 'Irrigation Schedules' list.
- DRAG & DROP CUSTOM FERTIGATION SCHEDULES**: Points to the 'Fertigation Schedules' list.
- MANAGE FERTIGATION & FILTRATION DEVICES**: Points to the 'Fertigation Devices' and 'Auto Filter Flushing' sections.
- CURRENT SYSTEM PRESSURE**: Points to the pressure gauge (565 kPa).
- CURRENT SYSTEM FLOW RATE**: Points to the flow rate gauge (6.9 l/s).
- CURRENTLY OPERATING VALVES, PUMPS, FILTERS**: Points to the status bar showing active components.
- FILTER FLUSH INHIBITED DURING THIS SCHEDULE**: Points to the 'Filter bank' section.
- CONCURRENT IRRIGATION SHIFT**: Points to overlapping irrigation events.
- PEAK/OFF-PEAK / SHOULDER SHADING**: Points to the color-coded time slots.



<b>iNTELLiPUMP FEATURES</b>	<b>AVAILABILITY</b>
<b>Irrigation Scheduling</b>	
Drag and drop irrigation scheduling calendar	Standard
Group any combination of valves in an irrigation shift	Standard
Link any number of irrigation shifts into an irrigation schedule	Standard
Calculate and display application depths for each valve	Standard
Sort valves by mainline segment and warn if over capacity	Standard
Run multiple schedules concurrently with different valve run times	Standard
Save any number of custom irrigation schedules	Standard
Easily view past and future irrigation schedules in calendar format	Standard
Trigger irrigation event based on a sensor reading or multiple sensors (expression)	Standard
Cease irrigation event based on sensor reading or expression	Standard
Define watering windows (custom, peak or off-peak) for sensor triggered events	Standard
Pause irrigation events during rain and restart when rain stops	Standard
Provide delays between valves opening & closing	Standard
Customise names of valves, pumps, sensors, schedules	Standard
Control any number of discrete irrigation systems from the one base station	Standard
Customise multiple screens for farm layouts, customise background image	Standard
<b>Pump System Management</b>	
Auto call pumps based on system demand	Standard
Auto rotate pumps based on run hours	Standard
Apply different pressure set-points to a VFD for each irrigation shift	Standard
Start generators and multiple pumps with start-up & shut-down delays	Standard
Auto fill tanks, dams or channels based on level	Standard
<b>Filtration System Management</b>	
Manage automatic filters based on pressure differential, time or manual flush	Standard
Manage multiple filter banks and in-field automatic filter stations	Standard
Pause filter flushing during shift changes and pipe fill time	Standard
Suspend filter flushing during a specific shift	Standard
Historical record of filter flush events	Standard
<b>Fertigation System Management</b>	
Drag and drop fertigation schedules on the scheduling calendar	Standard
Time based fertigation with pre-wet and post-flush durations	Standard
Link ancillaries such as agitators and control valves	Standard
Record type of fertiliser used	Standard
Volume based batch dosing – requires iFert module and fertiliser flow meter	Standard
Proportional (%) dosing – requires iFert module (or Modbus interface) and flow meters	Standard
Proportional dosing to multiple mainlines	Standard
Save any number of custom fertigation schedules	Standard
<b>Alarms and Reports</b>	
Email alarm notifications	Standard
SMS alarm notifications – requires SMS modem & SIM	Standard
Under/over flow rate alarm, under/over pressure alarm	Standard
Trigger alarm notifications based on sensor reading or expression	Standard
Configurable system event alarms	Standard
Customise alarm assignments to different recipients	Standard
Display current system pressure and flow on screen	Standard
Display any current sensor reading (eg temperature, rainfall, tank level) on screen	Standard
Display seasonal water use volumes	Standard
Provide visual display of which valves/pumps are currently operating	Standard
Automatically generate irrigation diaries, valve usage and fertigation reports	Standard
Monitor battery levels and radio communication	Standard